**Water and Physical Setting Study Guide Key**

**Density**: Mass divided by volume

**Cohesion:** Water molecules sticking to other water molecules

**Adhesion:** Water molecules sticking to other substances

**Surface Tension:** Do to cohesion….thin (skin) layer on surface of water

**Capillary Action:** Cohesion and adhesion working together. Example: paper towel from lab and water going up roots of flower/plant

1. Adhesion
2. Capillary Action and Adhesion
3. Surface tension and/or density
4. Surface tension

**Sediment:** small pieces of sand and dirt which settle at the bottom

**Ground water:** water held underneath the ground

**Surface water:** all water at Earth’s surface

**Erosion:** water wearing away solids over time

**Weathering:** destructive forces which change physical and chemical characteristics

**Aquifer:** Layer of rock that allows groundwater to flow through it

1. given time it dissolves everything
2. as it freezes, it expands and becomes less dense
3. it would become endangered/die
4. liquid water
5. solid water (ice)
6. Molecules with one weak end and one strong end. (slightly positive at one end and slightly negative at other end) like a magnet
7. 3%
8. 2%

Back of paper starts here

1. 0.1% (less than 1%)
2. 97%
3. 70 gallons
4. evaporation, condensation, precipitation
5. oceans
6. High
7. slow to cool and slow to heat
8. slow, slow
9. population and factory increase
10. industries
11. fertilizers and pesticides
12. sediment
13. water exists in all three states of matter
14. 100 degree Celsius (boiling)

0 degree Celsius (freezing)

1. Kidneys will fail
2. We will not have freshwater to live off of
3. Answers will vary look at the back of your poster directions for examples.
4. water was used for transportation, food, and water source
5. Heat makes water molecules move faster
6. dissolving gasses and detergent (chemical change), weathering rock, soil transportation, freezing breaking rocks apart (physical change)
7. breaks rock into smaller pieces
8. decomposition (breaking down) of rock into new substances
9. as it freezes, it expands and breaks rock apart
10. The moving of water will cause erosion

Don’t forget what we learned during our lab investigations!

Be able to calculate density!